



**AFCTN Report  
94-084**

**AFCTB-ID  
94-098**



**Technical Raster Transfer Using:  
West Coast Information Systems'**



**Data. Submitted By:**

**OO-ALC/DSGC-SCB**



**Supporting The EDCARS Program**

**(Contract #F33657-75-C-0310)**



**MIL-R-28002A (Raster)**

**Quick Short Test Report**

**16 July 1994**

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Distribution Unlimited**



Prepared for  
Electronic Systems Center  
Air Force CALS Program Office  
HQ ESC/AV-2  
4027 Colonel Glenn Hwy Suite 300  
Dayton OH 45431-1672

**19960822 115**

**DTIC QUALITY INSPECTED 3**

**Technical Raster Transfer**  
**Using:**  
**West Coast Information Systems' Data**  
**Submitted by: OO-ALC/DSGC-SCB**  
**Supporting the EDCARS Program**  
**(Contract #F33657-75-C-0310)**

**MIL-STD-1840A**  
**MIL-R-28002A (Raster)**

**Quick Short Test Report**  
**16 July 1994**

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**Prepared By**  
Air Force CALS Test Bed  
Wright-Patterson AFB, OH 45433

**AFCTB Contact**  
Gary Lammers  
(513) 427-2295

**AFCTN Contact**  
Mel Lammers  
(513) 427-2295

**DTIC QUALITY INSPECTED 8**

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# **Air Force CALS Test Bed**

## ***Notification of Test Results***

**16 July 1994**

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

### **DSGC-SCB**

Identified as follows:

Title:	<b>Technical Raster Transfer</b>
Program:	<b>EDCARS</b>
Program Office:	<b>OO-ALC/DSGC-SCB</b>
Contract No.:	<b>F33657-75-C-0310</b>
QSTR No.:	<b>AFCTB-ID 94-098</b>

Received on the following media:     **Three 9-Track Tape**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Standard	<b>Fail</b>
MIL-STD-1840A Media Format:	<b>Fail</b>
MIL-D-28000A IGES:	<b>N/A</b>
MIL-M-28001B SGML:	<b>N/A</b>
MIL-R-28002A Raster:	<b>Fail</b>
MIL-D-28003 CGM:	<b>N/A</b>

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed  
HQ ESC/AV-2P  
4027 Colonel Glenn Highway, Suite 300  
Dayton, OH 45431-1672  
Phone: 513-257-3085     FAX: 513-257-5881**

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## 1. Introduction

### 1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

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## 1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Hill AFB's interpretation and use of the CALS standards in transferring technical Raster data to DGSC-SCB. Hill AFB used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on three 9-track magnetic tapes.



## 2. Test Parameters

Test Plan: AFCTB 94-098

Date of  
Evaluation: 16 July 1994

Evaluator: George Elwood  
Air Force CALS Test Bed  
DET 2 HQ ESC/AV-2P  
4027 Colonel Glenn Hwy  
Suite 300  
Dayton OH 45431-1672

Data  
Originator: John McCloud  
DSGC-SCB  
8000 Jeff Davis Highway  
Richmond VA 23297-5000  
(DSN) 695-4402

Kim Call  
OO-ALC/TIEDEE  
Hill AFB, UT 84056  
(DSN) 458-6225

Data  
Description: Technical Raster Test  
3 Document Declaration files  
600 Raster files

Data  
Source System:

1840

**HARDWARE**

A T & T EDCARS Proprietary Equipment

**SOFTWARE**

A T & T/MAXIMA Proprietary Software (EDCALs)

Raster

**HARDWARE**

A T & T Proprietary Software

**SOFTWARE**

IBM Software

**Evaluation Tools Used:**

**MIL-STD-1840A (TAPE)**

SUN 3/280

AFCTN Tapetool v1.2.10 UNIX  
XSoft CAPS/CALS v40.4

**MIL-R-28002 (Raster)**

HP 735

AFCTN xrastb.hp  
InterCAP X-Change v7.82

SUN SparcStation 2

Carberry CADLeaf Plus v3.1

AFCTN validg4

AFCTN xrastb.sun4

IGES Data Analysis (IDA) IGESView v3.0

PC 486

AFCTN validg4

IDA IGESView Windows

Inset Systems HiJaak v2.1

Expert Graphics RxHighlight v1.0

**Standards**

**Tested:**

MIL-STD-1840A

MIL-R-28002A

### **3. 1840A Analysis**

#### **3.1 External Packaging**

The tapes arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tapes were not enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. The tape reels did not have the labels indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Some 9-track tape units require this BPI to be set manually. A packing list showing all files recorded on the tapes was not enclosed in the box.

#### **3.2 Transmission Envelope**

The 9-track tapes received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

##### **3.2.1 Tape Formats**

The tapes were run through the AFCTN *Tapetool* v1.2.10 utility. All three tapes reported the same type errors and notes, which will be discussed as one. The total errors and notes can be seen in the Appendix to this report for each tape.

All three tapes were reported as having "unexpected maximum record size encountered" notes. These are listed in the Appendix A, Section 9.1.1, 9.2.1, and 9.3.1. These notes point to the intent, of MIL-STD-1840A and the ANSI definitions, that the Record Format Length should have been set at 260 rather than 256. The intent is that the maximum data size is 256 bytes; thus the format length is 256 plus 4-byte Record Control Word that precedes the data bytes in variable length records. Some software programs are sensitive to the number 260 because it is used to limit the record size when unblocking data. Some systems need this value to declare

the maximum allowable record size as an attribute of a file when it is created.

A note was reported on the tape label version. MIL-STD-1840A permits the use of both version three and four. The use of the most current standard should be used and noted.

Many of the Raster files were reported as having an incomplete last block. This is normally the case when the last block of a fixed length file is not padded to the end of the block. All three tapes had similar reported notes. Some tape systems may ignore the data located in this partial block.

\*\*\* NOTE - Last block was incomplete. Short blocks are prone to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1664, Block Number => 113

All three contained more than 300 files. Since the AFCTN *Tapetool* utility has a limitation of 300 files, this was reported as an error.

\*\*\* INTERNAL ERROR (ansiread) - Maximum number of files (= 300) exceeded.

The tapes were read using XSoft's *CAPS read1840A* utility with any reported errors. The declaration files had a file count set to 999, which is the maximum number permitted in MIL-STD-1840A. Tape one reported no data files, tape two reported 324 files, and tape three reported 378 files. It is believed that tape one reported no data files because the Document Declaration file was named D002, which is the same name of the second data set.

The tapes did not meet the requirements defined in MIL-STD-1840A due to the lack of padding in the data files.

### 3.2.2 Declaration and Header Fields

All three tapes had reported errors in the Document Declaration file and data file headers. In all Document Declaration files, an invalid change level was flagged. MIL-STD-1840A requires that the word "ORIGINAL" or a revision number, followed by a change level number, followed by a change level date, be the value of this record.

chglvl: ORIGINAL, 15334840117

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.  
\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL or a Revision Number, followed by a Change Level Number, followed by a Change Level Date. They should be separated by a comma or space.

The AFCTN Tapetool reported an error in the file count record. This was caused by the 300 file limitation of the utility. This is not an error although the XSoft read1840A utility also reported an error in the same area, where the total files were less than the number indicated.

Checking file count...

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Actual Raster File Count does not match filcnt record. Actual => 299, Expected => 999.  
\*\*\* NOTE - Correction made in new Document Declaration header file.  
1 error(s) were encountered during file count verification.  
File Count verification complete.

All three tapes had reported errors in the srcdocid record. The AFCTN Tapetool will report an error if more than one space is encountered after the colon. This is not an error as the data in this record had a required space located here.

srcdocid: C10576                    81755 A                    00010001UMEAHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.

This portion of the three tapes do not meet the requirements defined in MIL-STD-1840A, because of the errors in the Document Declaration file. Both the change level and file count records were in error.

#### **4. IGES Analysis**

No Initial Graphics Exchange Specification (IGES) files were included in this evaluation.

#### **5. SGML Analysis**

No Standard Generalized Markup Language (SGML) files were included in this evaluation.

#### **6. Raster Analysis**

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The tapes contained over 900 Raster files. A sample of the files were evaluated using the AFCTN *validg4* utility. This program reported that some files failed to meet the CALS MIL-R-28002A specification. When the files were checked it was noted that the complete files were reported as having incomplete last blocks, and the files reported with correct block lengths were incomplete.

The files were read into the AFCTN *xrastb.sun4* viewing utility. The files with reported errors noted by *validg4* were also reported in error. When the files were viewed, it was noted that the bottom of the image was missing.

The Raster files were read into Carberry's *CADLeaf* software with reported errors. All images, which had reported errors noted by *validg4*, had a "could not import" error.

The files were read into IDA's *IGESView for Windows* with reported errors. All files with errors reported by *validg4* would not import.

The files were read into Inset Systems' *HiJaak for Windows* with reported errors. All files with errors reported by *validg4* would not import.

The files were read using InterCAP's *X-Change*. All files imported without a reported error. The files with errors reported by *validg4* were seen as incomplete images.

The Raster files were imported into Expert Graphics' *Rx-Highlight* and displayed without a reported error. The images which were reported as having errors by *validg4* were noted with errors by *RxHighlight*. A sample of one of these files is included in Appendix D of this report.

As an example of some of the files in error, on the tape with the files labeled as D002RXXX, the following is a partial list of bad files:

11,12,14,17,18,21,28,32,33,36,37,38,39,40,41,51.

The Raster files on all three tapes do not meet the CALS MIL-R-28002 specification. Approximately half of the files had incomplete file blocks, which resulted in partial unusable images.

## 7. CGM Analysis

No Computer Graphics Metafile (CGM) files were included in this evaluation.

## 8. Conclusions and Recommendations

All three tapes contained errors. The tapes could be read properly using the AFCTN *Tapetool* software regardless of the tape label errors; however, the tape label errors may cause other software systems to read the data improperly. The errors in the MIL-STD-1840A headers were minor and can be corrected easily. The errors in the construction of the tapes resulted in many unusable Raster files.

The errors with the Raster images are serious. However, the errors were not in the construction of the files but in the manner they were written to the tape. Approximately half of the files were noted as having errors. The Raster files do not meet the CALS MIL-R-28002A specification.

The three tapes, submitted by OO-ALC/DGSC-SCB, Hill AFB, do not meet the CALS MIL-STD-1840A requirements.



## 9. Appendix A - Tapetool Report Logs

### 9.1 Tape One

#### 9.1.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 10:34:19 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set083

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D002	Document Declaration	D/00256	02048/000001	Extracted
*** NOTE (MIL-STD-1840A; 5.2.1.3) - Unexpected maximum variable record size encountered. Header => 256, Expected => 260				
*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D shall be the maximum length of a Measured Data Unit (MDU).				
*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained in an MDU. An MDU consists of a four byte Record Control Word (RCW) followed immediately by the variable record.				
*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters that express the sum of the lengths of the RCW and the variable record.				
D002R001	Raster	F/00128	02048/000043	Extracted
D002R002	Raster	F/00128	02048/000051	Extracted

<<<< PART OF LOG FILE REMOVED HERE >>>>

D002R298	Raster	F/00128	02048/000016	Extracted
D002R299	Raster	F/00128	02048/000015	Extracted

Catalog Process terminated with 0 error(s), 0 warning(s), and 4 note(s).

---

## 9.1.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 10:26:51 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL100ALCD

EDCAL5

3

Label Identifier: VOL1  
Volume Identifier: 00ALCD  
Volume Accessibility:  
Owner Identifier: EDCALS  
Label Standard Version: 3

\*\*\* NOTE (ANSI X3.27; 8.3.1.8) - The Label Standard Version  
should be 4 to represent the current level of ANSI X3.27.

HDR1D002

00ALCE00010001000100 93048 00000 000000IBMZLA

Label Identifier: HDR1  
File Identifier: D002  
File Set Identifier: 00ALCE  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

HDR2D020480025640CALSOPT1/CONVERT

B

00

---

Label Identifier: HDR2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D002                    OOALCE00010001000100 93048 00000 000001IBMZLA

Label Identifier: EOF1  
File Identifier: D002  
File Set Identifier: OOALCE  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000001  
Implementation Identifier: IBMZLA

EOF2D020480025640CALSOPT1/CONVERT            B            00

Label Identifier: EOF2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

HDR1D002R001                    OOALCE00010002000100 93048 00000 000000IBMZLA

Label Identifier: HDR1  
File Identifier: D002R001  
File Set Identifier: OOALCE  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00

---

Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1408, Block Number => 43

Number of data blocks read = 43.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D002R001              OOALCE00010002000100 93048 00000 000043IBMZLA

Label Identifier: EOF1  
File Identifier: D002R001  
File Set Identifier: OOALCE  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000043  
Implementation Identifier: IBMZLA

EOF2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

<<<< PART OF LOG FILE REMOVED HERE >>>>

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 384, Block Number => 15

Number of data blocks read = 15.

\*\*\*\*\* Tape Mark \*\*\*\*\*

\*\*\* INTERNAL ERROR (ansiread) - Maximum number of files (= 300) exceeded.

Deallocating /dev/rmt0...

Tape Import Process terminated with 1 error(s), 0 warning(s),  
and 268 note(s).

---

## 9.1.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri Jul 15 10:34:22 1994

MIL-STD-1840A File Set Evaluation Log

File Set: Set083

Found file: D002

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: West Coast Information Systems, Inc

srcdocid: To Be Assigned

srcrelid: NONE

chglvl: ORIGINAL, 15334840117

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.

\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL  
or a Revision Number followed by a Change Level Number followed by  
a Change Level Date. They should be separated by a comma or space.

dteisu: 19930117

dstsys: UNKNOWN

dstdocid: To Be Assigned

dstrelid: NONE

dtetrn: 19930117

dlvacc: NONE

filcnt: R999

ttlcls: Unclassified

doccls: Unclassified

doctyp: Unclassified

docttl: EDCARS conversion to CALS group 4

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Document Declaration File D002.

Found file: D002R001

Extracting Raster Header Records...

Evaluating Raster Header Records...

srcdocid: SPFPS-3025            81755   AM2            00010001USBCHN  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 003936,004900  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

Saving Raster Header File: D002R001\_HDR  
Saving Raster Data File: D002R001\_GR4

Found file: D002R002  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: SPGSE1790            35351 B            00010001USBCHN  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 003904,004900  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

Saving Raster Header File: D002R002\_HDR  
Saving Raster Data File: D002R002\_GR4

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

Evaluating numbering scheme...  
No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...  
\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Actual Raster File Count does  
not match filcnt record. Actual => 299, Expected => 999.  
\*\*\* NOTE - Correction made in new Document Declaration header file.  
1 error(s) were encountered during file count verification.  
File Count verification complete.

---

A total of 20 error(s), 0 warning(s), and 19 note(s) were encountered in Document D002.

A grand total of 20 error(s), 0 warning(s), and 19 note(s) were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

## 9.1.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D002' ---  
-- declaration file indicates 0 files of type T  
-- declaration file indicates 0 files of type G  
-- declaration file indicates 0 files of type H  
-- declaration file indicates 0 files of type Q  
-- declaration file indicates 999 files of type R  
-- declaration file indicates 0 files of type C  
-- declaration file indicates 0 files of type X  
-- declaration file indicates 0 files of type P  
-- declaration file indicates 0 files of type Z  
*** WARNING: Declaration file indicates 999 Raster files, but tape contains  
0 files.
```



## 9.2 Tape Two

### 9.2.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 11:06:21 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set084

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00256	02048/000001	Extracted
*** NOTE (MIL-STD-1840A; 5.2.1.3) - Unexpected maximum variable record size encountered. Header => 256, Expected => 260				
*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D shall be the maximum length of a Measured Data Unit (MDU).				
*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained in an MDU. An MDU consists of a four byte Record Control Word (RCW) followed immediately by the variable record.				
*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters that express the sum of the lengths of the RCW and the variable record.				
D001R001	Raster	F/00128	02048/000060	Extracted
D001R002	Raster	F/00128	02048/000016	Extracted
D001R003	Raster	F/00128	02048/000014	Extracted

<<<< PART OF LOG FILE REMOVED HERE >>>>

D001R297	Raster	F/00128	02048/000072	Extracted
D001R298	Raster	F/00128	02048/000041	Extracted
D001R299	Raster	F/00128	02048/000055	Extracted

Catalog Process terminated with 0 error(s), 0 warning(s), and 4 note(s).

---

## 9.2.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 10:54:41 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL100ALCD

EDCAL5

3

Label Identifier: VOL1  
Volume Identifier: 00ALCD  
Volume Accessibility:  
Owner Identifier: EDCALS  
Label Standard Version: 3

\*\*\* NOTE (ANSI X3.27; 8.3.1.8) - The Label Standard Version  
should be 4 to represent the current level of ANSI X3.27.

HDR1D001

00ALCD00010001000100 93048 00000 000000IBMZLA

Label Identifier: HDR1  
File Identifier: D001  
File Set Identifier: 00ALCD  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

HDR2D020480025640CALSOPT1/CONVERT

B

00

---

Label Identifier: HDR2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001                    OOALCD00010001000100 93048 00000 000001IBMZLA

Label Identifier: EOF1  
File Identifier: D001  
File Set Identifier: OOALCD  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000001  
Implementation Identifier: IBMZLA

EOF2D020480025640CALSOPT1/CONVERT            B                    00

Label Identifier: EOF2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

HDR1D001R001                    OOALCD00010002000100 93048 00000 000000IBMZLA

Label Identifier: HDR1  
File Identifier: D001R001  
File Set Identifier: OOALCD  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00

---

Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 60.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R001              OOALCD00010002000100 93048 00000 000060IBMZLA

Label Identifier: EOF1  
File Identifier: D001R001  
File Set Identifier: OOALCD  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000060  
Implementation Identifier: IBMZLA

EOF2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 768, Block Number => 55

Number of data blocks read = 55.

\*\*\*\*\* Tape Mark \*\*\*\*\*

\*\*\* INTERNAL ERROR (ansiread) - Maximum number of files (= 300) exceeded.

Deallocating /dev/rmt0...

Tape Import Process terminated with 1 error(s), 0 warning(s),  
and 232 note(s).

---

## 9.2.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri Jul 15 11:06:24 1994

MIL-STD-1840A File Set Evaluation Log

File Set: Set084

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: West Coast Information Systems, Inc

srcdocid: To Be Assigned

srcrelid: NONE

chglvl: ORIGINAL, 15334840117

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.

\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL  
or a Revision Number followed by a Change Level Number followed by  
a Change Level Date. They should be separated by a comma or space.

dteisu: 19930117

dstsys: UNKNOWN

dstdocid: To Be Assigned

dstrelid: NONE

dtetrm: 19930117

dlvacc: NONE

filcnt: R999

ttlcls: Unclassified

doccls: Unclassified

doctyp: Unclassified

docttl: EDCARS conversion to CALS group 4

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Document Declaration File D001.

Found file: D001R001

Extracting Raster Header Records...

Evaluating Raster Header Records...

---

srcdocid: C10567 81755 C 00010001USBCHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 003712,004656  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R001.  
Saving Raster Header File: D001R001\_HDR  
Saving Raster Data File: D001R001\_GR4

Found file: D001R002  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: C10576 81755 A 00010001UMEAHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 002416,002624  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R002.  
Saving Raster Header File: D001R002\_HDR  
Saving Raster Data File: D001R002\_GR4

<<<< PART OF LOG FILE REMOVED HERE >>>>

Evaluating numbering scheme...  
No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Actual Raster File Count does  
not match filcnt record. Actual => 299, Expected => 999.

\*\*\* NOTE - Correction made in new Document Declaration header file.

1 error(s) were encountered during file count verification.

File Count verification complete.

A total of 70 error(s), 0 warning(s), and 69 note(s) were  
encountered in Document D001.

A grand total of 70 error(s), 0 warning(s), and 69 note(s) were  
encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.



---

## 9.2.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001' ---  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned1.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned2.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned3.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned4.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned5.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned6.R.cci'.
```

<<<< PART OF LOG FILE REMOVED HERE >>>>

```
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned322.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned323.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t2/ToBeAssigned/  
ToBeAssigned324.R.cci'.  
-- declaration file indicates 0 files of type T  
-- declaration file indicates 0 files of type G  
-- declaration file indicates 0 files of type H  
-- declaration file indicates 0 files of type Q  
-- declaration file indicates 999 files of type R  
-- declaration file indicates 0 files of type C  
-- declaration file indicates 0 files of type X  
-- declaration file indicates 0 files of type P  
-- declaration file indicates 0 files of type Z  
*** WARNING: Declaration file indicates 999 Raster files, but tape contains  
324 files.
```

## 9.3 Tape Three

### 9.3.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

- MIL-STD-1840A (1987) - Automated Interchange of Technical Information
- ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange
- ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 12:13:55 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set085

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00256	02048/000001	Extracted
*** NOTE (MIL-STD-1840A; 5.2.1.3) - Unexpected maximum variable record size encountered. Header => 256, Expected => 260				
*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D shall be the maximum length of a Measured Data Unit (MDU).				
*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained in an MDU. An MDU consists of a four byte Record Control Word (RCW) followed immediately by the variable record.				
*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters that express the sum of the lengths of the RCW and the variable record.				
D001R001	Raster	F/00128	02048/000113	Extracted
D001R002	Raster	F/00128	02048/000117	Extracted
D001R003	Raster	F/00128	02048/000126	Extracted

<<<< PART OF LOG FILE REMOVED HERE >>>>

D001R297	Raster	F/00128	02048/000011	Extracted
D001R298	Raster	F/00128	02048/000015	Extracted
D001R299	Raster	F/00128	02048/000015	Extracted

Catalog Process terminated with 0 error(s), 0 warning(s), and 4 note(s).

---

## 9.3.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes  
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 15 12:02:56 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...  
/dev/rmt0 allocated.

VOL100ALCA

EDCAL5

3

Label Identifier: VOL1  
Volume Identifier: 00ALCA  
Volume Accessibility:  
Owner Identifier: EDCALS  
Label Standard Version: 3

\*\*\* NOTE (ANSI X3.27; 8.3.1.8) - The Label Standard Version  
should be 4 to represent the current level of ANSI X3.27.

HDR1D001                    00ALCA00010001000100 93048 00000 0000000IBMZLA

Label Identifier: HDR1  
File Identifier: D001  
File Set Identifier: 00ALCA  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

HDR2D020480025640CALSOPT1/CONVERT            B            00

Label Identifier: HDR2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001                    OOALCA00010001000100 93048 00000 000001IBMZLA

Label Identifier: EOF1  
File Identifier: D001  
File Set Identifier: OOALCA  
File Section Number: 0001  
File Sequence Number: 0001  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000001  
Implementation Identifier: IBMZLA

EOF2D020480025640CALSOPT1/CONVERT            B                    00

Label Identifier: EOF2  
Recording Format: D  
Block Length: 02048  
Record Length: 00256  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

HDR1D001R001                    OOALCA00010002000100 93048 00000 000000IBMZLA

Label Identifier: HDR1  
File Identifier: D001R001  
File Set Identifier: OOALCA  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000000  
Implementation Identifier: IBMZLA

---

HDR2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 1664, Block Number => 113

Number of data blocks read = 113.

\*\*\*\*\* Tape Mark \*\*\*\*\*

EOF1D001R001              OOALCA00010002000100 93048 00000 000113IBMZLA

Label Identifier: EOF1  
File Identifier: D001R001  
File Set Identifier: OOALCA  
File Section Number: 0001  
File Sequence Number: 0002  
Generation Number: 0001  
Generation Version Number: 00  
Creation Date: 93048  
Expiration Date: 00000  
File Accessibility:  
Block Count: 000113  
Implementation Identifier: IBMZLA

EOF2F020480012840CALSOPT1/CONVERT      B              00

Label Identifier: EOF2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

HDR2F020480012840CALSOPT1/CONVERT      B              00

---

Label Identifier: HDR2  
Recording Format: F  
Block Length: 02048  
Record Length: 00128  
Offset Length: 00

\*\*\*\*\* Tape Mark \*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* NOTE - Last block was incomplete. Short blocks are  
proned to be interpreted as noise by some tape drives.  
Tape Label => 2048, Actual => 768, Block Number => 15

Number of data blocks read = 15.

v

\*\*\*\*\* Tape Mark \*\*\*\*\*

\*\*\* INTERNAL ERROR (ansiread) - Maximum number of files (= 300) exceeded.

Deallocating /dev/rmt0...

Tape Import Process terminated with 2 error(s), 0 warning(s),  
and 217 note(s).

---

### 9.3.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri Jul 15 12:13:57 1994

MIL-STD-1840A File Set Evaluation Log

File Set: Set085

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: West Coast Information Systems, Inc

srcdocid: To Be Assigned

srcrelid: NONE

chglvl: ORIGINAL, 15334840117

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Invalid change level encountered.

\*\*\* NOTE (MIL-STD-1840A; 5.1.1.2) - Change level should be the word ORIGINAL  
or a Revision Number followed by a Change Level Number followed by  
a Change Level Date. They should be separated by a comma or space.

dteisu: 19930117

dstsys: UNKNOWN

dstdocid: To Be Assigned

dstrelid: NONE

dtetrn: 19930117

dlvacc: NONE

filcnt: R999

ttlcls: Unclassified

doccls: Unclassified

doctyp: Unclassified

docttl: EDCARS conversion to CALS group 4

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Document Declaration File D001.

Found file: D001R001

Extracting Raster Header Records...

Evaluating Raster Header Records...

---

srcdocid: AD39692 73030 B 00010001USBHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 007008,009000  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R001.  
Saving Raster Header File: D001R001\_HDR  
Saving Raster Data File: D001R001\_GR4

Found file: D001R002  
Extracting Raster Header Records...  
Evaluating Raster Header Records...

srcdocid: AD39693 73030 B 00010001USBHN  
\*\*\* ERROR (MIL-STD-1840A; 5.1.4) - Value contains leading spaces.  
\*\*\* NOTE - Correction made in new Raster Header File.  
dstdocid: 1840A group 4 site  
txtfilid: NONE  
figid: NONE  
srcgph: NONE  
doccls: NONE  
rtype: 1  
rorient: 090,270  
rpelcnt: 007008,009000  
rdensty: 0200  
notes: EDCARS to 1840 group 4 conversion image

1 error(s), 0 warning(s), and 1 note(s) were encountered  
in Raster File D001R002.  
Saving Raster Header File: D001R002\_HDR  
Saving Raster Data File: D001R002\_GR4

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

Saving Raster Header File: D001R299\_HDR  
Saving Raster Data File: D001R299\_GR4



Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.  
Numbering scheme evaluation complete.

Checking file count...

\*\*\* ERROR (MIL-STD-1840A; 5.1.1.2) - Actual Raster File Count does  
not match filcnt record. Actual => 299, Expected => 999.  
\*\*\* NOTE - Correction made in new Document Declaration header file.  
1 error(s) were encountered during file count verification.  
File Count verification complete.

A total of 77 error(s), 0 warning(s), and 76 note(s) were  
encountered in Document D001.

A grand total of 77 error(s), 0 warning(s), and 76 note(s) were  
encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

---

### 9.3.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001' ---  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned1.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned2.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned3.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned4.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned5.R.cci'.
```

<<<< PART OF LOG FILE REMOVED HERE >>>>

```
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned375.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned376.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned377.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9498t3/ToBeAssigned/  
ToBeAssigned378.R.cci'.  
-- declaration file indicates 0 files of type T  
-- declaration file indicates 0 files of type G  
-- declaration file indicates 0 files of type H  
-- declaration file indicates 0 files of type Q  
-- declaration file indicates 999 files of type R  
-- declaration file indicates 0 files of type C  
-- declaration file indicates 0 files of type X  
-- declaration file indicates 0 files of type P  
-- declaration file indicates 0 files of type Z  
*** WARNING: Declaration file indicates 999 Raster files, but tape  
contains 378 files.
```